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	Application No.	Applicant(s)	<u>SK</u>	
Notice of Allowability	TANIMONALLIAN	· whencourtel		
	09/928,470	LINDNER ET AL.		
	Examiner	Art Unit		
	Jonas N. Strickland	1754	<u></u>	
- The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85). NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT Right of the Office or upon petition by the applicant. See 37 CFR 1.313. 1. This communication is responsive to the amendment filed of	(OR REMAINS) CLOSED in this or other appropriate communic GHTS. This application is subj and MPEP 1308.	is application. If not includation will be mailed in due	ted course. THIS	
2. The allowed claim(s) is/are claims 1-21.				
3. The drawings filed on are accepted by the Examiner				
4. Acknowledgment is made of a claim for foreign priority under a) All b) ☐ Some* c) ☐ None of the:).	·	
 Certified copies of the priority documents have 				
2. Certified copies of the priority documents have				
 Copies of the certified copies of the priority doc International Bureau (PCT Rule 17.2(a)). 	uments have been received in	this national stage applica	ation from the	
Certified copies not received:			•	
 Acknowledgment is made of a claim for domestic priority un reference was included in the first sentence of the specificat 	ion or in an Application Data Si	ovisional application) since heet, 37 CFR 1.78.	e a specific	
(a) The translation of the foreign language provisional ap	=			
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Applicant has THREE MONTHS FROM THE "MAILING DATE" of the below. Failure to timely comply will result in ABANDONMENT of the	his communication to file a replies application. THIS THREE-	ly complying with the required in the requirement of the property of the prope	irements noted EXTENDABLE	
7. A SUBSTITUTE OATH OR DECLARATION must be submitted INFORMAL PATENT APPLICATION (PTO-152) which gives	ted. Note the attached EXAMIN reason(s) why the oath or dec	IER'S AMENDMENT or N Jaration is deficient.	IOTICE OF	
8. [] CORRECTED DRAWINGS (as "replacement sheets") must			-	
(a) including changes required by the Notice of Draftsperso	n's Patent Drawing Review (P'	TO-948) attached		
1) Thereto or 2) to Paper No		4 44 5 5		
(b) including changes required by the proposed drawing co				
(c) I including changes required by the attached Examiner's	Amendment / Comment or in th	le Ottice action of Paper (No	
identifying indicis such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	4(c)) should be written on the dr margin according to 37 CFR 1.1	awings in the front (not the 121(d).	back) of	
DEPOSIT OF and/or INFORMATION about the deposi attached Examiner's comment regarding REQUIREMENT FOR TH	t of BIOLOGICAL MATERIA E DEPOSIT OF BIOLOGICAL	AL must be submitted. M MATERIAL.	lote the .	
Attachment(s)			:	
1 Notice of References Cited (PTO-892)		lotice of Informal Patent Application (PTO-152)		
2 Notice of Draftperson's Patent Drawing Review (PTO-948)		6☐ Interview Summary (PTO-413), Paper No		
3 Information Disclosure Statements (PTO-1449 or PTO/SB/08),	7 Examiner's Amen	7 Examiner's Amendment/Comment		
Paper No 4[] Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's Stater 9☐ Other .	ment of Reasons for Allow	/ancê	
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Allowable Subject Matter

Claims 1-21 are allowed.

The following is an examiner's statement of reasons for allowance: The instant application is in condition for allowance, because the cited prior art fails to disclose an exhaust gas purification catalyst comprising palladium on aluminum oxide and barium oxide, wherein barium oxide and palladium crystallites are together deposited on the aluminum oxide support and the average particle size of the palladium crystallites on the support is between 3 and 7 nm, wherein the palladium crystallites are deposited by capillary injection.

The closest cited prior art reference, Gandhi et al. (EP 0786284 A1), discloses a catalyst converter having a first highly loaded palladium or tri-metal catalytic element containing palladium of relatively large particle size closely coupled to the engine exhaust manifold (see abstract). Gandhi et al. continues to disclose wherein the highly loaded palladium may be induced by the incorporation of barium, zirconium, or stabilized cerium oxide closely coupled to the exhaust of an internal combustion engine (p. 2, col. 2, lines 49-56). Gandhi et al. continues to disclose wherein the palladium particle sizes in the catalytic element may be in the range from about 60A to 1500A (col. 4, lines 18-21). The catalytic metals may be coated on monolithic ceramic substrates of alumina (p. 4, lines 22-26). It is anticipated that a purification catalyst comprised of palladium, wherein the palladium particle sizes in the catalytic element may be in the range from about 60A to 1500A and barium oxide deposited on an alumina support, would exhibit a size distribution of ±0.5 nm. However, Gandhi's

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palladium particles are deposited on the support by impregnation, and not by capillary injection.

Mussmann et al. (US Patent 6,080,375) also do not teach wherein palladium crystallites are deposited onto a aluminum support along barium oxide, wherein the palladium crystallites are present on the support between 3 and 7 nm, wherein the palladium crystallites are deposited by capillary injection.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonas N. Strickland whose telephone number is 571-272-1359. The examiner can normally be reached on M-TH, 7:30-5:00, off 1st Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-1700.

Jonas N. Strickland March 5, 2004

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